Question #60702, Physics / Other | for completion

A dog runs 96 m away from its master in a straight line in 9.0 s and then runs halfway (1/2) back in one-third (1/3) the time. The average velocity of the dog for the entire run is?

Solution



The average velocity is defined as all the way divide all the time, i.e.:

 $< v >= \frac{S_1 + S_2}{t_1 + t_2} = \frac{96 m + 48 m}{9 s + 3 s} = \frac{144 m}{12 s} = 12 m/s$

Answer the questions:

The average velocity of the dog for the entire run is $< v >= 12 \ m/s$.

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